



SEPTEMBER 1987

COLORADO SPRINGS,
COLORADO



PIKES PEAK RADIO AMATEUR ASSOCIATION, INC.

P.O. Box 16521
Colorado Springs, CO 80935

FIRST CLASS MAIL



Ø BEAT



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The Pikes Peak Radio Amateur Association meets on the second Wednesday of each month at Giuseppe's Depot Restaurant at 105 Sierra Madre at 7:30 p.m. All amateurs and interested parties are invited to attend.

Editor: Phil Somers VE1ARC, 1075 Allegheny Dr. Colorado Springs, CO 80919 590-7136

NEW Ø-BEAT EDITOR SOON

by PHIL VE1ARC

You may have heard that I intend to make October my last issue of Ø-Beat. Well, it is true.

I became editor back in March 86 when there was a panic to find an editor, and I was new to the Club and rather reluctant to take on the job knowing so little about the Club and its members. In retrospect, I think it was a great personal decision for it was the best introduction to a club any new member could hope for.

I hope to have room for a few more words next month. I just wanted to say that an excellent editor has volunteered, but in fairness to all, the job is open to nominations in time for the Oct election.

NOVICE CLASSES

Fall Novice Classes will commence Tuesday, September 15 at the Civil Defense Center located in the downtown Police Headquarters building. Classes will be held every Tuesday and Friday from 7:00 to 9:00 P.M.

Tech and General upgrade classes are planned to commence following the same schedule upon completion of the Novice Classes.

Persons interested in participating either as students or instructors may contact KCØTQ at 634-4555.

A Bit of Our History

from Aug 1941 ØST

"The Pikes Peak Amateur Radio Ass'n had their best FD, making 66 contacts with 20 states and K6, FXB, KKY and YLT are known to have had a hand in the operation. They are testing 112-Mc. equipment preparatory to the Pikes Peak Auto Race."

New World of Amateur Radio Video

World premiere of the new ARRL videotape, "The New World of Amateur Radio" will be uplinked at 6PM EDT September 20 on GTE Spacenet 1, transponder 12H (channel 23 on most home satellite receivers).

ARRL Letter, Aug 11, 1987

FREE

1" and 1 1/8" aluminum tubing removed from a 20 meter beam. Tubing is telescoping. Enough to build a ten or six meter beam or whatever. Pickup only.

FDR SALE

SENCORE CG19 Color bar generator (caddy) Condition new. All solid state. (Less battery). Make offer.

Kenwood VFO 120 (external VFO). Condition new. Asking \$75.

B. Flynn, WØMHV 635-1909

"VIEW FROM THE PEAK"

by George Hinds, N8CIX

It's time for a review of what's happening in amateur radio of late:

The FCC Public Notice PRB-3 covering issuance of a specific "private" call sign to amateurs is before the Commission; comments have been received from a significant number of amateurs with most being in favor. The FCC will not issue such secondary call signs if the proposal is approved; it will need to be handled by a Special Call Sign Coordinator (SCSC). At present, several groups have submitted proposals to become the SCSC, including the ARRL, Callbook Magazine, Buckmaster Publishing, and others.

It seems that most proposals envision an applicant for a secondary call sign will request a previously held call, or a call held by a family member now deceased, or to an Extra Class operator, or for a special event station.

The Radio Shack "Novice Voice Class" introductory package to Amateur Radio appears in the forthcoming 1988 catalog - perhaps the "Shack" is considering a re-entry into ham radio? The package will consist of an illustrated textbook, two code tapes, a Form 610 and all in a plastic binder, to sell for \$19.95. Since RS distributes 40 million of their catalogs, this introductory package to amateur radio will be brought before the eyes of at least that number of potential purchasers (and potential hams).

Docket 87-14 looks toward giving 2 MHz of the amateur 220 band to narrow-band land mobile users. Thousands of amateurs have filed comments objecting to such a giveaway. Now the ARRL has filed added "supplementary comments" to the Commission, claiming that propagation characteristics are unique and deserve continuing amateur experimentation; that other frequency allocations to amateurs are not suitable or available substitutes for 220; that large sums of money have been expended by amateurs in the 220-222 portion of the band, and that adequate space for the use of narrow band land mobile exists in the 218-220 land mobile band while such spectrum presents less problems to television.

Both Aerotron and Neutec, manufacturers of land mobile radios, have announced 220 MHz radios using Amplitude Companded Side Band technology, though stating in their ads that the units were "for export only". To my knowledge, there is no foreign country where 220 MHz is allocated for land mobile, so to whom are they advertising such radios???

Reciprocal operating privileges among amateurs in most European countries has done away with the need to apply for another license(s) over there when crossing from country to country - just as currently exists between the U.S. and Canada. Now, finishing touches are being put on a reciprocal agreement covering amateurs in North, Central and South America, including Mexico, thus putting into formal agreement what is largely an informal arrangement at present. More word on progress in this matter could come at any time....

.....

Electronic Device Usage on Aircraft—

Operation of amateur radio equipment aboard commercial aircraft is prohibited by FAA Regulation 91.19. Due to many recent technology advances since the current FAA rules were enacted, the Radio Technical Commission for Aeronautics, an aviation safety advisory group headquartered in Washington, has proposed the following revision of FAA Regulation 91.19...

(a.) Except as provided in paragraphs (c), (d) and (e) of this section, no person may operate, nor may any operator or pilot in command of an aircraft allow the operation of, any portable electronic device on any of the following U.S. registered civil aircraft

- (1.) Aircraft operated by an air carrier or commercial operator or;
- (2.) Any other aircraft while it is operated under IFR (instruments).

(b.) Portable electronic devices specifically not allowed include any radio transmitting device which intentionally radiates, such as Citizen Band (CB) radios, cellular radios, and transmitters which remotely control devices such as toys.

(c.) Paragraph (a) of this section does not apply to:

- (1.) hearing aids;
- (2.) heart pacemakers;
- (3.) electronic watches;
- (4.) properly certificated operator equipment (such as operator provided

passenger telephone equipment);

(d.) Non-transmitting portable electronic devices may be used when the seat belt sign is off, provided that the operator of the aircraft has determined that the device will not cause interference with the aircraft's electronic equipment, such as navigation or communications systems. If interference from a portable electronic device is suspected, the operator may prohibit operation of the device. Devices which may be used if demonstrated acceptable, include but are not limited to:

- (1.) audio or video recorders;
- (2.) audio or video playback devices;
- (3.) electronic entertainment devices;
- (4.) computers;
- (5.) calculators;
- (6.) FM receivers;
- (7.) TV receivers;
- (8.) electric shavers.

(e.) Personal life support systems may be operated during all flight phases, provided that the operator of the aircraft has determined that the system will not cause interference with the aircraft's electronic systems.

(f.) In the case of an aircraft operated by an air carrier or commercial operator, the determination required by paragraphs (d) and (e) of this section shall be made by the air carrier or commercial operator of the aircraft on which the particular device is to be used. In the case of other aircraft, the determination may be made by the pilot in command or other operator of the aircraft. (Thanks to 8/1/87 issue of "W5YI REPORT")

.....

For those amateurs interested in transmitter hunts for whatever reasons, a new book (Transmitter Hunting, Radio Direction Finding Simplified) issued by TAB BOOKS features old and new methods of closing in on targets when hunting a transmitter. With 323 pages and 235 illustrations, it's Item #2701 and priced at \$17.95 from TAB or at your local amateur radio bookstore.

.....

Regency IF-1 VHF/UHF scanner comes pre-programmed with local/state police frequencies for all 50 states! You merely dial in the state 2-letter code initials (Ohio: OH) and listen -- Scan rate is reportedly at 50 channels per second! List: \$369.95...

73, N8CIX

REPEATERS

In an earlier issue a remarkable critique, on use of a repeater, was printed in the ZERO BEAT.

As an owner and user of repeaters, I would like to take a moment for, rebuttle.

In general repeater users are for the most part, O.K.

I know nothing is perfect this day and age. There are however, ways around the little in-conveniences we some time experience.

For example: Consider other frequencies in the two meter band. If the one repeater you want to use is busy, try an alternative repeater. There are many open machines in the Springs area, that work equally well ... There is the pro-word break, when an emergency exists. With rare exception, it is seldom ignored...If you don't like what you hear on the frequency, besides the alternate, freqs, there is the OFF switch... Two meters is not the only way to get handle talkie coverage in the Springs, there is 450 Mhz. There are two open machines in the Springs and soon there will be three...If the phone is so necessary, the phone is going to be once again available, soon...Lastly, one of the greatest things about being a HAM, is rag chewing, it goes with the territory.

I grant you the use of a repeater between two mobiles, less than a block apart, is somewhat a waste. But, if no one else is using the machine, fine business. I put my repeater on the mountain, to be used, not to remain silent, awaiting the all to infrequent, disaster. True some life stories are a bore, but, so is silence.

Listening with an open ear..
Paul KD8SO.

BWAP

50 ft of RG58 for 50 ft of RG59.

Mel 574-1877 after 5 PM

VHF & ABOVE NEWS
by NKOP

CONGRATULATIONS to NØCMW who received VUCC #232 on 50MHz this month. Al uses a Yaesu FT726R (10 watts) and a 6 ele yagi. Al has 130 Grids confirmed all worked within the past year or so.

The Pikes Peak Radio Amateur Association is a special service club and in that capacity can now offer VUCC and WAS awards confirmation service. You no longer have to send your hard earned QSLs thru the USPS. For more information contact NKOP or NØCMW.

The August UHF contest had some good activity. KDGGS went mobile with 432MHz and 1296MHz to South Dakota and Nebraska and confirmed those two states for a half dozen or so UHFs.

The Perseids meteor shower provided a few new grids on 144MHz this year although I did not think it was as good as the past few years.

Upcoming meteor showers are: Orionids 10/22/87 at 1128 GMT +or-12hrs.

Taurids 11/02/87 2312 GMT +or-12hrs.

Leonids 11/17/87 1423 GMT +or-12HRS.

EME Perigee is September 6th.

Results of the June VHF contest showed 24 entries from Colorado. Congratulations are in order to NØCMW who placed 1st in the Colorado section on 220MHz.

The 1st Sporadic E Two-Way was reported by W5HUQ who contacted KSUGM near Jacksonville, Florida. (on 220MHz)

The September VHF contest is from 1800 UTC Saturday September 12th to 0300 Monday September 14th. This is your last chance to get some new Grids confirmed until 1988. See QST page 78 for rules.

The WØPW Microwave Update is scheduled for September 10-13 at Estes Park Co. This conference usually draws hams from Europe as well as all parts of the US.

The VHF/UHF and Above News reported a new 144MHz record this month between KD4WF (DW25) and NW7O (EN92) 1980 miles. The path was double hop E-skip and the mode was SSB.

That's what's new as I know it for this month. 73s and C U on the bands...Ron NKOP

SEPTEMBER MEETING

The next regularly scheduled meeting of the Pikes Peak Radio Amateur Association will be held on Wednesday, Sept 9 at 7:30 PM at Giuseppe's Depot at #10 S. Sierra St. The program will be on a Noise Interference by a Brad KDØVKA.



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VE Test Results - 15 Aug 87

Congratulations to those who recently upgraded during the Volunteer Examination session held on 15 August 1987. The following either upgraded to a higher class or got a new license.

Donald A Brider	Unlicensed to Novice
Eric P Dhamm	Unlicensed to Novice
Lindsey E Fisher	Unlicensed to Tech
Robert Lamoureux	Unlicensed to General
Craig R Riley	Novice to Extra
Ryan N Jensen	Novice to Tech
Harvey N Sims	Novice to Tech
Benjamin Cooper	General to Advanced
Frank F Roybal	Novice to Tech

TEST	1A	1B	1C	2	3A	3B	4A	4B
GIVEN	4	2	2	5	8	4	3	1
PASSED	3	1	1	5	6	3	2	1
% PASSED	75	50	50	100	75	75	67	100

TOTAL TESTS GIVEN = 29
TOTAL TESTS PASSED = 22
% PASSED = 76

UPGRADES Ext-1 Adv-1 Gen-1 Tech-4 Nov-2

submitted by Pete NØLA

Picnic Postmortem
by
Jim Borrelli WA9ABB



The PPRAA annual picnic was held on August 2, 1987. If you weren't there, shame on you! There were 46 club members and guests present. There was more than enough food and drink for everyone. At the previous club meeting the sign up roster indicated 62 planned to attend. The facilities at the USAFA picnic area were excellent with enough room for 100 or more. A few members brought items for a mini-swapfest and a few choice items changed hands. Ron Morris (KA0ZHO) was the winner of the Icom 2AT handitalkie and was present to collect his prize. Congratulations Ron! After everyone was reasonably stuffed, Frank Roybal (KA0YPX) provided some fine live entertainment with his guitar. The weather then turned a bit stormy, and everyone headed for home about 4 pm.



The only let down at the picnic for me was that so many of you were not there. If there is enough interest next year the AFA Radio Club will try to obtain the picnic area again. We all should give Doug Brower (N0HJT) a big hand for organizing the picnic. Unfortunately because of duty commitments, Doug was unable to get there till it was already over. Also thanks to all of the others who gave Doug a hand in making sure everything went well. Next year, lets try to make it bigger and even better.

WELL DONE EVERYONE!!!!!!



Jim WARABB gave up his evening at the last Club meeting (and many previous evenings) to help Frank KA0YPX from the Deaf & Blind School study for his Tech exam. And congratulations to Frank, he passed. As if that weren't enough good news, Ron Morris KA0ZHO won the ICOM handie talkie at the Club picnic and DONATED it to Frank. Don't think you will find any better examples of the spirit of amateur radio than this. Well done to all

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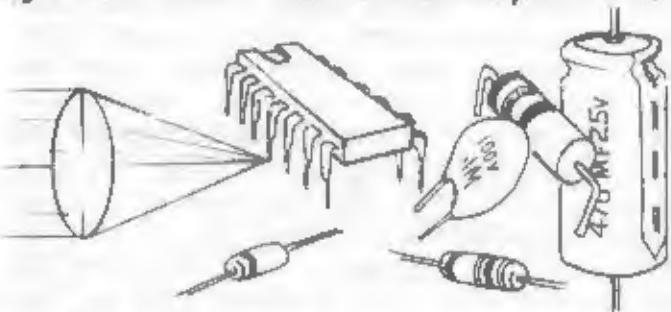
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(Second of two parts)

HAM RADIO AND RALLYING

by Tom Kimball, KA8BZB

As with any form of racing, some cars will be involved in incidents. Some will experience mechanical breakdowns, some will "crash". Since there is no way the entire course can be observed at one time, the primary method of assisting a competitor with a problem usually begins with the competitor with the problem. If a car stops along the route, the driver or navigator is obligated to warn the remaining competitors by placing flares or triangles prior to the location.

If a team driving the stage encounters a competitor with no warnings posted, it is assumed there is a serious problem and they are obligated to stop and assist (and with no penalties assessed). They post the necessary warning and assist as needed and, if there is a very serious problem, they post 3 closely spaced flares or triangles to indicate the fact. They will stop the next team as well and send them to the finish control (or an intermediate location if one is available) with instructions as to what kind of help is needed.

At the finish control, the controllers will be notified and the amateur operator there will report the situation to the organizers and the start control. Should emergency assistance be required, the race in that stage will be held or stopped and appropriate aid dispatched to the scene. This process seems slow on the surface; in practice, however, assistance at an incident will usually arrive within 10" or sooner.

The key is communications: usually ham radio communications. The ability of the crew at the stage finish line to relay the situation both to the "start" and to the appropriate emergency crews is paramount. Ham radio, with its cadre of experienced message handlers and the ability to operate in a wide variety of situations, provides the measure of "safety communications" required to avoid unnecessary risk to life and property.

In my previous article, I mentioned how Ham Radio plays a vital role in the conduct of "Pro" rallys. Now we will look at how the Hams and their communications network are organized and the equipment used.

To provide a basis, I will compare two events I've attended. I should first tell you that my role in both started from being an experienced road rally worker, rather than as an amateur radio operator. The fact that I'm an amateur has resulted in my being given an added hat to wear in addition to being a rally Stage Captain. The two events involved are the "Sunriser Forest Rally" in southern Ohio late each summer, and the "Susquehannock Trail Pro Rally" in north central Pennsylvania each June. Both of these events are conducted by the Sports Car Club of America (SCCA) as part of their national championship series. For the most part, the competitors are the same in both events.

The Sunriser Forest Rally is supported by the Central Ohio Amateur Radio Emergency Service (COARES). To assist in handling communications, COARES uses as many as 3 portable 2-meter repeaters, linked so that all communication is effectively on a single net regardless of the repeater being used. Originally linking was accomplished via 220 MHz; recent equipment advances permit direct repeating using repeater frequencies involved.

Headquarters for the Sunriser usually is in Chillicothe, about 60 miles south of Columbus, OH. The "stage" portions of this event go as far east as 60 miles from headquarters (Zaleski State Park) and as far south as 50 miles (Shawnee State Park). In addition, other portions of this event take place in downtown Chillicothe and nearby state park areas.

The stages of this rally are in hilly areas (by Ohio standards). There is, however, no mountain (or even hilltop) repeater in the area, so using 2-meters in the valleys is often difficult unless one is near a repeater. COARES places one portable repeater to the east in the Zaleski area, another to the south in the Shawnee area, and the third on a high point just south of Chillicothe. This plan allows 10-watt mobiles to be full-quieting from most everywhere along the route.

Ham radio operations for the Susquehannock Trail event were quite different when I first attended: the terrain around Wellsboro, PA is far more hilly than southern Ohio. Few repeaters were available and no ARES group existed. Nevertheless, they managed to recruit amateurs not only from that area but from central upstate New York and then developed an operating plan which became equally effective as in Ohio. To the extent possible, local repeaters were used plus simplex nets were established operating from park service fire lookout towers outside of repeater coverage areas.

Recognizing the merits of direct repeater coverage over having to relay information, local hams recently established an additional repeater to cover territory that was formerly simplex-only. Repeater linking has also commenced, again improving the speed and reliability of communications.

In these two events as in most road rallies, a central site with telephone service is chosen for net control location. As a rule, it's in the rally headquarters, be it hotel, motel, etc. Temporary antennas are rigged on rooftops, often in interesting configurations.

As well as providing communications in individual "stages" of a rally, amateurs are assigned to various emergency teams (ambulances, wreckers, fire vehicles, etc.) to coordinate their movements as the rally

competitors move from stage to stage. Some are stationed with auxiliary units such as press, service vehicles and spectator control units. In some instances, amateur "volunteers" are provided with very "brisk" rides in the "lead" cars which precede the actual competitors by 10 to 15 minutes at close to racing speeds.

An added benefit for Ham radio: in Ohio, at least, many of the rally organizing staff have recognized that amateur radio is both useful and fun combined with their road rally hobby. They've been motivated to study code and theory so as to get their amateur ticket - in turn, we've seen more and more of the rally participants and even spectators going after their license so as to be "in" on all the action. Sometimes licensed folks among the spectators have served as impromptu relay stations for information when they happened upon an incident or accident (I once got involved as a spectator when a car caught fire at my location).

The operation of a Rally is truly a complex event, carefully choreographed. Although the SCCA has its own radio network, they are not prepared to cope with the terrain and distances often involved, hence the importance of support from the amateur community. The nature of this sport entails some risk, accepted by the participants with the expectation and confidence that the organizers will detect problems and provide as prompt assistance as possible. Ham radio is playing an increasingly important role towards that end, providing the event with an additional measure of safety and the amateurs with experience in organization and handling of emergency traffic on a controlled net. Both benefit from this symbiotic relationship.

Pro rallys are conducted all over the country, from the Pacific Northwest to the swamps of the southeast, from the desert high country of southern California to New England. If one is planned in your area, and all of this intrigues you, check it out and then volunteer to help. You, too, may get "hooked" on this just as I have.

73, de Tom Kimball, KA8BZB

ICOM Battery Substitute

&

Speaker-Mike Substitute

by Jim WA9ABB

Need a new rechargeable battery pack or want a spare for your ICOM 2AT,3AT,4AT? The standard ICOM BP3 nicad pack rated at 8.4V/250mah sells for \$37.50. Amateur Electronic Supply is closing out the Santeac 200ET Handitalkie and accessories. The Santeac KTBP nicad battery pack is also rated at 8.4V/250mah and fits the ICOM 2AT. The close out price is \$24.95 plus \$2.00 shipping-handling. The Santeac KTBP is 1/2" taller than the ICOM BP3. This should be no problem unless you are using a leather case for your 2AT. The ICOM cube charger works fine with the Santeac battery. AES has a toll free number for ordering (1-800-558-0411). I am not sure how many they have left, so if you want one, act quickly.

Another tip - The ICOM speaker-mike(HM9) sells for \$47.00. The speaker-mike for the Yaesu FT23 H.T. sells for \$39.95, but has been unavailable in the U.S. since the first of the year. Colorado Radio in Denver sells a \$29 generic speaker-microphone for the FT23. It is well made and has separate electret microphone and speaker elements. It also works fine with the ICOM 2AT.

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DST DST DST DST

How long have you been a ham? Has it lost some of its allure? When was the last time you helped a newcomer into the hobby and shared his joy and enthusiasm? The vitality, growth, and survival of our hobby depends on each of us. If we fail to recruit new members into our midst, ham radio will die. Ever wonder who the last ham will be and who his last QSO will be with?

Maybe it's time to re-read The Amateur's Code found in the front of the ARRL Handbook and see how we stack up. Next time you hear a newcomer or youngster make a booboo on the air, if you must correct them, do it in a kind and brotherly way. Remember, we are after all only amateurs and were all beginners once. This hobby has so much to give, isn't it time we give something back.

Ham radio - Think about it; take care of it; share it.

73 T.O.M.

MINUTES OF AUGUST GENERAL MEETING

submitted by Al NØCMW, secretary

The general meeting of the Pikes Peak Radio Amateur Association was held at Giuseppe's Old Depot Restaurant, Wednesday evening 12 August 1987. The meeting was called to order by the president Don KEØGJ at 19:30. There were 53 members and guests present. During the introductions, Frank (ex-KAØYEM) reported

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that his new call is now N8IEM. And from one-land, David NIFBV is moving to the Springs.

The minutes of the previous General Meeting and Board Meeting were approved as printed in #-Beat.

Committee Reports

Note: Anyone wishing to help out on any of these committees, please contact the chairman at the phone number listed. Thank you for your support.

Treasurer - Bud NØDDF (599-7699): Previous balance was \$2105.74, income of \$437.60, expenses of \$260.38 leaving a balance of \$2282.96.

Interference - Ron NKØP (593-8352): No problems.

Pikes Peak Hill Climb - Malcolm KE9S (488-2071): Thanks to all those who participated. He is resigning as chairman. See him if you would like to volunteer for the position. Thanks Malcolm for a great job!

Education - Les KCØNC (634-3995): He is resigning. Thanks Les for a fine job! (Note: as of 20 Aug, Harley Hansen, KCØTC 634-4555 has volunteered for job).

Publicity - Rick WB7THT (599-7655): Nil

Colorado Council of Amateur Radio Clubs (CCARC) - Bud NØDDF (599-7699): Nil

Deaf and Blind School - Jim WA9ABB (598-7543): Jim was at home helping Frank prepare for the Tech exam.

#-Beat - Phil VE1ARC (590-7136): Thanks to the 4 new contributors.

ARES - Jim WA5BKK (579-9129): There will be an exercise soon. Al NOCMW, new Emergency Co-ordinator (EC) confirmed a Disulated Emergency Test (DET) soon.

Public Service - Mike KØTER (636-1290): Thanked those who responded at short notice to the rocket launch communications near Wilkerson Pass all day Saturday and Sunday, 8-9 Aug.

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TAB BOOKS

VE Testing - Pete NØLA (495-4829):

Test on Aug 15 at First Methodist Church. Introduced new VEs, Keith NYØT, Irene AHØGF, George WØLMW, and Chris NXØE.

Picnic - Ron NKØP (593-8352):

50 members and guests attended. Icom 2AT HT was won by Ron KAØZHQ. T-shirt contest was won by Rick WB7THT with an Ollie North special, the prize being a \$10. breakfast coupon at Village Inn.

PIKES PEAK CLIMB FOR LIFE - Les KCØNC (634-3995): Needed someone to stay at Barr Camp overnight 29 Aug.

Teller County Hill Climb - Doc WØMCT (596-4216): Fall Teller county is the last race of the season, on 26 and 27 Sep. See Doc to assist.

Old Business: Nil

New Business:

Ron NKØP suggested that as a special service club, we should volunteer to be the area VHF awards manager, an ARRL Field Volunteer position. Motion was passed. Ron volunteered to be the chairman.

Don KEØGJ reminded the members of the club elections in October.

Dak KMRD has VHS videos on Field Day etc., to loan.

Prizes - Ron NKOP

KB2BHA	Eleanor	\$10. Centennial
WD6AMZ	Len	\$10. Wintronics
KA8YLE	Sylvia	\$20. OEM Parts
NØENM	Joe	License manual
VE1ARC	Phil	\$5. Village Inn
KDØNB	E.J.	Licence manual
KA7IPV	Frank	Club hat
WB2EVR	BILL	License manual

Program:

Randy WB7RAY showed a VCR video of the amateur rocket launches near Wilkerson Pass. It was very different and much enjoyed. Thank you Randy!

The meeting was adjourned at 21:30. The next board meeting was planned for QTH of Bud NØDDF on 17 Aug. The next general meeting will be 9 Sep.

MINUTES OF AUGUST BOARD MEETING

submitted by Al NØCMW

The Board meeting was held Aug 17. Meeting opened by President Don KEØGJ at 1900 local at the QTH of Bud NØDDF. Present were Bud NØDDF, Al NØCMW, Chris NXØE, Phil VE1ARC, Don KEØGJ, and Jim WA9ABB.

Denver AREB asked about using Club trailer at the B-29 event Oct 1&2. It was decided they could use it if they would come get it and bring it back, and be responsible for it.

Al brought up the bulk mail issue for Ø-Beat. After looking over the instructions, it was decided to forget it for now due to the extra labor and the questionable savings involved. Advertising rates will have to go up for Ø-Beat. Bud will notify advertisers of the change.

Smoking after a lengthy discussion, it was decided by the Board that the meeting at the present location would be non-smoking like it had been at previous locations. Everyone is encouraged to try to find a location with good food, high ceilings, good ventilation, more room, and for little or no cost.

The Board kicked around some names for their recommendation for the Oct elections. If you have someone you would like to see as Board member or officer of your club, let any Board member know. The person would have to be willing also.

Al announced that Ron NKOP was now the VHF VUCC Awards Program chairman for the Rocky Mountain region with Al NØCMW as his assistant. Al is also the new District 14 Emergency Co-ordinator.

The education chairmanship was discussed. Al was asked to talk to a couple of people looking for a volunteer.

The program for the September meeting will be on Noise Interference by Brad KDØVM.

There being no further business, the meeting adjourned at 21:00. Next board meeting on 14 Sept will be at the QTH of Al NØCMW.

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We will be closed the following dates for Hamfests:

Sept. 11-13 Camp out Hamfest - Medicine Bow
National Forest Campground near Laramie, WY

Sept. 18-20 Wichita Falls, Texas

Sept. 25-27 Santa Fe, New Mexico

Oct. 3-4 Lubbock, Texas

Closed Oct. 3-19 for vacation and 40th anniversary but
we'll call you back if you leave a message on our machine.

Due to Hamfest season, we are not running a product listing this month - we have (or can get quickly) nearly all ham equipment advertised by major companies and distributors in current ham catalogs and magazines and most at lower prices. If you call and get our answering machine, please leave your name and number and a message up to 1 minute long - we get them daily and will call you back, or if you leave an order and your address, we'll ship it that day or next.

Some specials on New Equipment

Kenwood TM221A - 2 meter FM 45 W rcv from 138-174 MHz w/TTM - \$355.

Kenwood TM421A - 70 cm 35 W w/TTM \$365.

Kenwood TM2530 - \$349.

Kenwood TM2550 - \$379.

Kenwood 2570 - \$449.

Kenwood TS440S w/AT - \$1000.

Kenwood TS430S - \$740.

Icom 28H - Now with TTM - Sale \$425.

Icom 28A - Now with TTM - Sale \$398. w/o TTM - \$365.

Icom 735 - Sale \$798.

Yaesu FT 767GX - \$1425.

Yaesu FT757GX - \$765. Mark II - \$945.

Yaesu FT727R - 2M/70 cm HT - \$398. New CPU.

Yaesu FT23R - \$265. w/TTP.

Kantronics KAM - \$275.

MFJ 1274 VHF/HF Packet Controller \$139.

AEA PK 232 w/FAX - \$298.

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Thanks for your support, — Jess KØTAA

We'll look forward to seeing you at one of the hamfests!

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